

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324231

Luminaire Tested: **GAN-SA7A-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24436 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

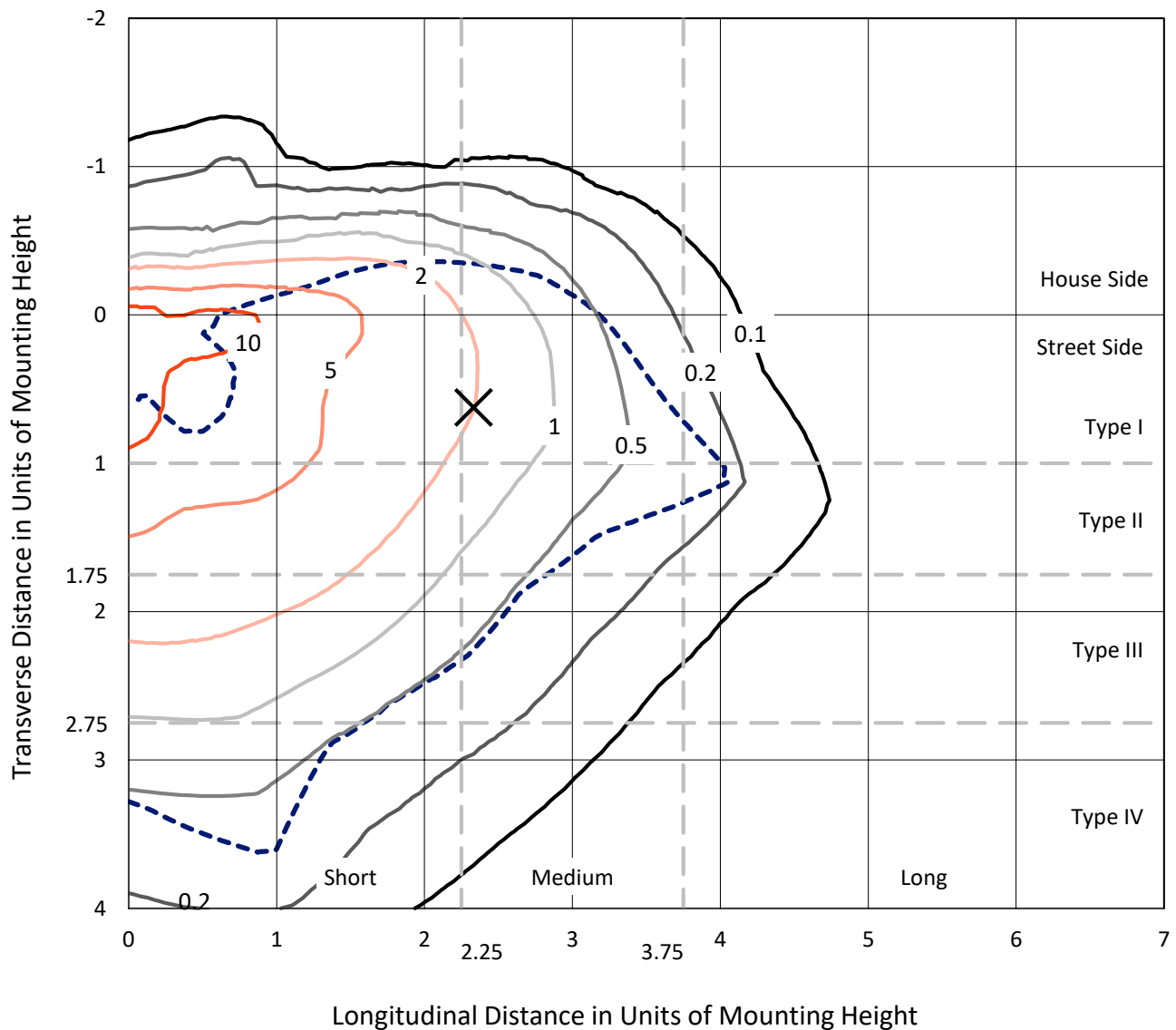
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

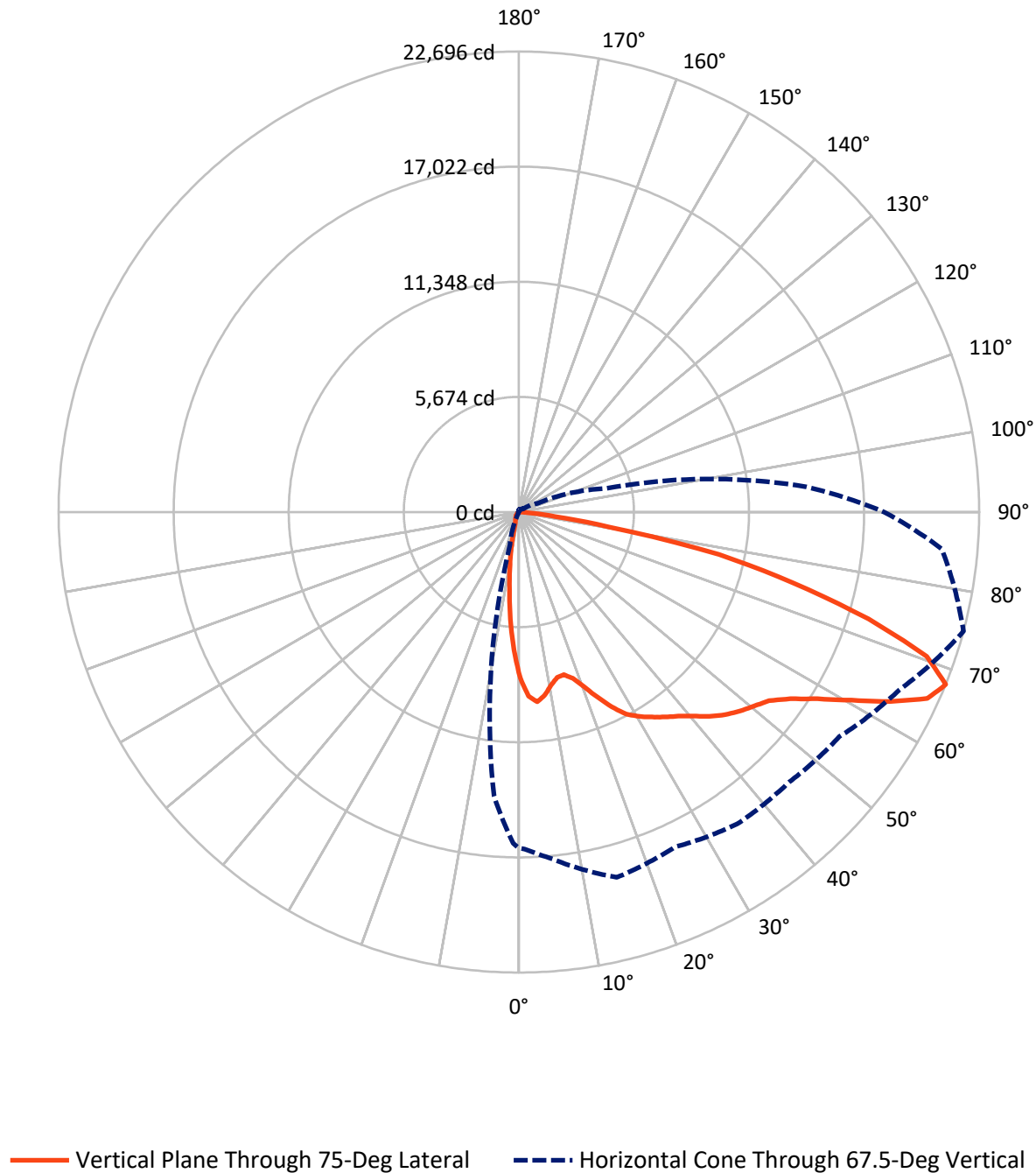
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3666.9	0.0	3666.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	20769.1	0.0	20769.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	24436.0	0.0	24436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.8	2.5
10°-20°	1224.4	5.0
20°-30°	1732.2	7.1
30°-40°	2546.8	10.4
40°-50°	3660.6	15.0
50°-60°	5153.2	21.1
60°-70°	6018.5	24.6
70°-80°	3070.4	12.6
80°-90°	407.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24436.0	100.0
0°-180°	24436.0	100.0

Coefficient of Utilization



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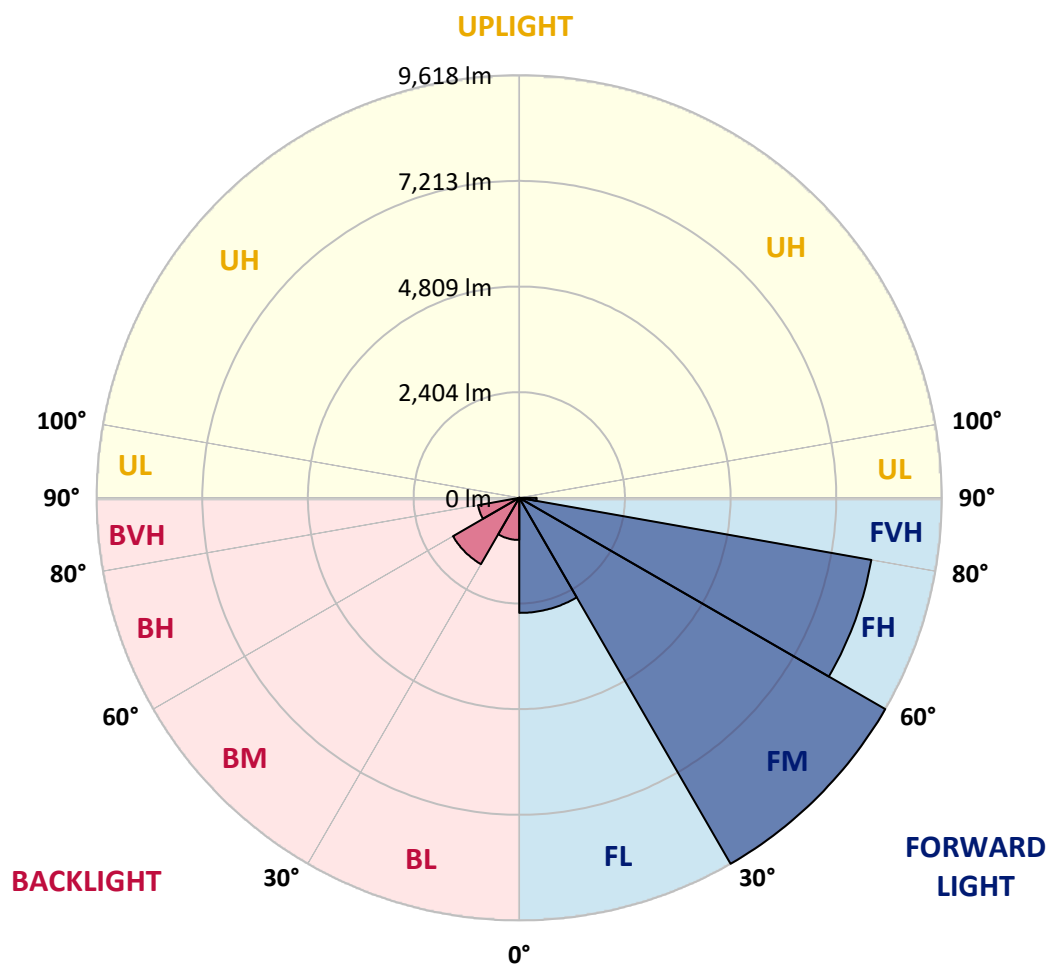
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2619.5	10.7			
FM	(30°-60°)	9617.6	39.4			
FH	(60°-80°)	8136.5	33.3			G4/12000
FVH	(80°-90°)	395.5	1.6			G3/500
BL	(0°-30°)	958.9	3.9	B2/1000		
BM	(30°-60°)	1743.1	7.1	B2/2500		
BH	(60°-80°)	952.5	3.9	B2/1000		G2/1000
BVH	(80°-90°)	12.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9
2.5°	8886.6	8900.5	8972.3	9139.0	9320.7	9334.6	9457.3	9331.1	9288.3	9084.6	8873.9
5°	8953.7	9007.0	9253.6	9743.2	10168.0	10304.6	10401.9	10154.1	9893.7	9395.9	8864.6
7.5°	8413.2	8502.3	8890.1	9809.2	10568.5	10904.2	10967.9	10580.1	9942.3	9122.8	8324.0
10°	7720.9	7822.8	8290.5	9420.2	10463.2	11038.5	11126.5	10618.3	9701.5	8680.6	7739.5
12.5°	7160.7	7279.9	7758.0	8982.7	10100.9	10737.6	10911.2	10489.8	9493.2	8366.9	7340.1
15°	6902.5	7039.1	7541.5	8700.2	9699.2	10200.4	10344.0	10162.2	9377.4	8317.1	7247.5
17.5°	7050.7	7198.9	7717.5	8724.6	9321.9	9536.0	9651.8	9725.8	9377.4	8616.9	7518.4
20°	7658.4	7818.2	8366.9	8971.1	9009.3	8929.4	9053.3	9313.8	9486.2	9186.4	8168.9
22.5°	8498.8	8686.4	9305.6	9393.6	8856.5	8554.4	8570.6	8979.2	9684.2	9908.7	9071.8
25°	9523.3	9752.5	10382.2	10023.3	8920.2	8331.0	8325.2	8703.7	9877.5	10632.2	10077.7
27.5°	10540.8	10793.1	11346.4	10792.0	9182.9	8290.5	8278.9	8620.4	10066.2	11275.8	11176.3
30°	11393.9	11639.3	12116.2	11348.7	9466.5	8385.4	8329.8	8709.5	10178.5	11693.7	11977.3
32.5°	12088.4	12285.2	12670.7	11731.9	9769.8	8569.4	8449.1	8948.0	10369.4	12046.8	12713.5
35°	12852.4	13059.6	13213.6	12096.5	10110.2	8834.5	8662.0	9326.5	10663.5	12405.6	13520.3
37.5°	13724.1	13930.1	13911.6	12429.9	10541.9	9273.2	9163.3	9926.1	11120.7	12761.0	14420.9
40°	14577.2	14787.9	14637.4	12794.5	11048.9	9996.7	9915.7	10826.7	11733.1	13215.9	15476.6
42.5°	15375.9	15603.9	15282.1	13139.5	11653.2	10908.9	11047.8	11986.6	12499.4	13776.2	16386.5
45°	16019.5	16252.2	15822.7	13475.2	12289.8	12015.5	12433.4	13271.5	13420.8	14249.6	17001.1
47.5°	16487.2	16707.1	16197.8	13810.9	13104.8	13368.7	14096.8	14618.9	14253.1	14660.5	17437.5
50°	16785.8	16957.1	16307.7	14231.1	14174.4	14947.6	15829.7	16084.3	15036.7	15031.0	17967.7
52.5°	16975.7	17053.2	16388.8	14669.8	15290.2	16666.6	17526.7	17606.5	15843.6	15438.4	18681.9
55°	17629.7	17692.2	16962.9	15201.1	16212.8	18172.6	19061.6	18987.5	16756.9	16236.0	19524.6
57.5°	18745.6	18811.6	18149.4	15965.1	16959.5	19103.3	20174.0	20307.1	17827.6	17356.5	20427.5
60°	19305.8	19428.5	19192.4	16932.8	17682.9	19698.2	20932.2	21357.0	19165.8	18833.5	21302.6
62.5°	18797.7	18975.9	19318.6	18005.9	18401.8	20025.8	21168.4	21733.2	20536.3	20554.8	21842.1
65°	17783.6	17926.0	18507.1	18593.9	18818.5	19985.3	20584.9	21207.7	21375.6	22136.1	21813.1
67.5°	16558.9	16612.2	17105.3	18640.2	18214.3	18767.6	18832.4	19293.1	20712.3	22696.3	20936.8
70°	14796.0	14824.9	15255.5	17090.3	15652.6	15774.1	15678.0	15771.8	17806.8	21331.6	18724.7
72.5°	11907.8	11980.8	12593.1	14192.9	11403.2	11052.4	11807.1	11765.5	13713.6	18022.1	13907.0
75°	8767.4	8893.6	9818.4	11432.1	8003.4	7239.4	7790.4	7937.4	9749.0	13940.5	8696.8
77.5°	6138.6	6232.3	7128.3	8403.9	5792.4	5176.6	4977.5	5152.3	6434.9	10084.7	4381.4
80°	3536.4	3571.1	4142.9	4852.5	3903.3	4465.9	4045.7	4166.1	3855.8	4486.7	1884.5
82.5°	2314.0	2319.8	2543.2	2888.1	2430.9	2824.5	2090.6	2672.8	2371.8	1802.3	613.5
85°	1250.2	1257.1	1474.7	2050.0	1376.3	777.9	457.2	938.8	1466.6	413.2	167.8
87.5°	137.7	126.2	444.5	745.5	382.0	70.6	24.3	105.3	235.0	26.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9
2.5°	8766.2	8670.1	8430.5	8177.0	7973.3	7782.3	7590.1	7355.2	7173.4	7136.4	7076.2
5°	8578.7	8274.3	7771.9	7267.2	6860.9	6348.1	6022.8	5769.3	5521.6	5506.5	5456.8
7.5°	7923.5	7523.0	6815.7	6117.7	5545.9	5057.4	4564.3	4234.4	3975.1	3883.6	3829.2
10°	7293.8	6843.5	5960.3	5163.9	4653.4	4221.6	3874.4	3529.4	3216.9	3001.6	2904.3
12.5°	6853.9	6356.2	5382.7	4696.2	4330.4	3920.7	3497.0	3066.4	2706.4	2447.1	2288.5
15°	6683.8	6152.4	5189.4	4511.0	4059.6	3541.0	2999.2	2507.3	2107.9	1872.9	1730.6
17.5°	6886.3	6268.2	5174.3	4285.3	3654.4	3009.7	2411.2	1830.1	1453.9	1275.6	1184.2
20°	7400.3	6636.3	5168.5	4008.6	3172.9	2379.9	1633.3	1203.9	975.8	876.3	833.4
22.5°	8127.2	7106.3	5214.8	3735.5	2671.7	1700.5	1127.5	884.4	767.5	714.2	689.9
25°	9062.6	7766.1	5345.6	3487.7	2200.5	1268.7	878.6	740.8	658.7	617.0	599.6
27.5°	10059.2	8525.5	5549.4	3272.4	1817.4	1011.7	752.4	634.3	575.3	546.4	530.2
30°	10881.1	9405.2	5755.4	3032.8	1539.6	882.1	688.7	578.8	510.5	492.0	476.9
32.5°	11599.9	10070.8	5901.3	2816.4	1357.8	783.7	622.8	517.4	471.1	435.2	419.0
35°	12344.3	10625.3	5896.6	2664.7	1232.8	709.6	567.2	463.0	407.5	365.8	353.1
37.5°	13149.9	11251.5	5795.9	2535.1	1178.4	650.6	536.0	434.1	378.5	336.9	320.6
40°	14093.3	11909.0	5692.9	2413.5	1163.4	603.1	514.0	410.9	351.9	311.4	295.2
42.5°	15012.4	12501.7	5602.6	2323.2	1098.5	601.9	494.3	393.6	331.1	291.7	273.2
45°	15747.5	13053.8	5585.2	2268.8	1030.2	622.8	483.9	382.0	314.9	275.5	258.1
47.5°	16358.7	13653.5	5696.4	2230.6	965.4	568.4	509.3	373.9	299.8	261.6	241.9
50°	17085.6	14389.7	5958.0	2168.1	897.1	511.6	583.4	376.2	287.1	247.7	226.9
52.5°	18099.7	15408.3	6342.3	2062.8	803.3	459.6	574.2	378.5	273.2	232.7	211.8
55°	19236.4	16680.5	6755.5	1888.0	672.5	391.3	492.0	362.3	246.6	216.5	196.8
57.5°	20431.0	17834.6	7000.9	1679.6	534.8	338.0	393.6	329.9	217.6	194.5	181.7
60°	20618.5	18273.3	6888.7	1423.8	424.8	294.0	291.7	335.7	194.5	171.3	162.1
62.5°	20152.0	17722.3	6345.8	1195.8	355.4	258.1	239.6	292.9	175.9	152.8	143.5
65°	19254.9	16232.5	5466.0	1077.7	329.9	221.1	199.1	206.0	154.0	133.1	125.0
67.5°	18007.0	14243.8	4487.9	1010.6	326.4	189.8	170.2	156.3	133.1	115.8	108.8
70°	15455.8	11866.2	3580.3	973.5	317.2	159.7	143.5	127.3	111.1	98.4	92.6
72.5°	11375.4	8408.5	2785.1	933.0	319.5	127.3	125.0	105.3	89.1	76.4	74.1
75°	6572.6	4803.9	1826.6	755.9	304.4	98.4	104.2	74.1	62.5	53.2	53.2
77.5°	3502.8	2929.8	695.7	314.9	111.1	62.5	59.0	44.0	39.4	32.4	31.3
80°	1526.8	1289.5	209.5	88.0	61.4	33.6	22.0	19.7	17.4	13.9	12.7
82.5°	540.6	466.5	68.3	42.8	26.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	122.7	88.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9
2.5°	6953.5	6928.0	6777.5	6783.3	6809.9	6848.1	6757.9	6799.5	6911.8	7019.5	7060.0
5°	5376.9	5382.7	5291.2	5347.9	5398.9	5433.6	5287.7	5290.1	5379.2	5500.7	5564.4
7.5°	3788.7	3779.4	3784.1	3919.5	4015.6	3946.1	4000.5	3811.9	3823.4	3910.2	3845.4
10°	2816.4	2689.0	2617.2	2719.1	2824.5	2786.3	2692.5	2631.1	2674.0	2770.0	2763.1
12.5°	2213.3	2030.4	1922.7	1849.8	1936.6	1864.8	1862.5	1809.3	1751.4	1761.8	1915.8
15°	1664.6	1531.5	1404.1	1287.2	1284.9	1260.6	1136.7	997.8	986.2	993.2	1073.1
17.5°	1144.8	1099.7	1047.6	946.9	920.3	818.4	698.0	642.4	614.7	627.4	654.0
20°	804.5	787.1	792.9	738.5	700.3	603.1	532.5	510.5	505.9	518.6	531.3
22.5°	666.8	635.5	632.0	607.7	569.5	498.9	460.7	448.0	442.2	453.8	463.0
25°	583.4	552.2	539.4	524.4	483.9	435.2	412.1	400.5	394.7	401.7	407.5
27.5°	514.0	485.0	473.4	463.0	423.7	388.9	370.4	360.0	355.4	357.7	363.5
30°	461.9	436.4	421.4	408.6	375.1	350.7	334.5	324.1	319.5	319.5	325.3
32.5°	407.5	393.6	379.7	363.5	332.2	316.0	299.8	288.2	283.6	284.8	289.4
35°	339.2	334.5	338.0	323.0	296.3	282.4	266.2	253.5	250.0	251.2	255.8
37.5°	301.0	280.1	292.9	284.8	269.7	251.2	230.4	218.8	213.0	216.5	218.8
40°	276.7	251.2	241.9	250.0	247.7	217.6	199.1	187.5	182.9	184.1	186.4
42.5°	255.8	225.7	204.9	203.7	217.6	189.8	170.2	159.7	154.0	154.0	156.3
45°	236.1	203.7	178.3	158.6	182.9	160.9	142.4	133.1	126.2	126.2	127.3
47.5°	221.1	185.2	155.1	129.6	137.7	132.0	116.9	107.7	100.7	100.7	101.9
50°	207.2	166.7	134.3	108.8	103.0	108.8	94.9	84.5	79.9	78.7	81.0
52.5°	192.2	148.2	114.6	92.6	81.0	82.2	74.1	67.1	61.4	61.4	63.7
55°	177.1	133.1	99.6	78.7	67.1	61.4	59.0	54.4	49.8	49.8	52.1
57.5°	162.1	116.9	84.5	64.8	53.2	48.6	48.6	45.1	41.7	41.7	44.0
60°	148.2	100.7	69.5	53.2	41.7	40.5	41.7	38.2	35.9	35.9	38.2
62.5°	132.0	85.7	56.7	44.0	33.6	32.4	35.9	33.6	31.3	31.3	33.6
65°	112.3	72.9	45.1	33.6	25.5	25.5	30.1	27.8	25.5	25.5	27.8
67.5°	94.9	61.4	34.7	24.3	18.5	19.7	25.5	23.2	22.0	22.0	24.3
70°	78.7	47.5	24.3	15.0	10.4	15.0	19.7	19.7	19.7	19.7	22.0
72.5°	59.0	32.4	13.9	5.8	4.6	10.4	16.2	18.5	17.4	17.4	20.8
75°	38.2	18.5	4.6	0.0	0.0	5.8	12.7	15.0	15.0	13.9	17.4
77.5°	22.0	5.8	0.0	0.0	0.0	0.0	8.1	6.9	5.8	4.6	8.1
80°	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: GAN-SA7A-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9	8197.9
2.5°	7223.2	7359.8	7551.9	7755.7	8069.4	8318.2	8562.5	8772.0	8853.0	8886.6
5°	5717.2	5917.5	6198.7	6559.9	7126.0	7635.3	8151.6	8671.3	8897.0	8953.7
7.5°	4102.4	4358.2	4715.9	5168.5	5831.8	6491.6	7212.8	7975.6	8325.2	8413.2
10°	3036.3	3348.8	3758.6	4235.5	4868.7	5547.0	6333.0	7204.7	7604.0	7720.9
12.5°	2154.2	2576.7	3125.4	3705.4	4254.0	4859.4	5654.7	6615.5	7034.5	7160.7
15°	1265.2	1673.8	2323.2	3100.0	3802.6	4416.1	5224.1	6313.3	6775.2	6902.5
17.5°	725.8	929.5	1420.3	2286.2	3240.0	4089.7	5088.6	6388.6	6932.6	7050.7
20°	554.5	619.3	818.4	1472.4	2582.5	3769.0	5088.6	6814.6	7484.8	7658.4
22.5°	485.0	532.5	613.5	878.6	1900.7	3425.2	5147.7	7430.4	8306.7	8498.8
25°	430.6	473.4	542.9	661.0	1296.5	3016.6	5287.7	8186.3	9274.4	9523.3
27.5°	385.5	426.0	488.5	578.8	886.7	2523.5	5476.4	9073.0	10341.7	10540.8
30°	345.0	383.2	439.9	503.5	684.1	1964.4	5637.3	9908.7	11179.7	11393.9
32.5°	306.8	341.5	392.4	439.9	560.3	1452.7	5654.7	10570.9	11875.4	12088.4
35°	270.9	302.1	348.4	385.5	464.2	1147.1	5385.0	11145.0	12571.1	12852.4
37.5°	236.1	266.2	306.8	334.5	408.6	935.3	4972.9	11785.1	13463.6	13724.1
40°	203.7	230.4	272.0	290.5	386.6	718.8	4524.9	12456.5	14338.7	14577.2
42.5°	173.6	199.1	239.6	275.5	339.2	537.1	4041.1	13086.2	15125.9	15375.9
45°	144.7	171.3	211.8	291.7	281.3	401.7	3523.6	13504.1	15747.5	16019.5
47.5°	116.9	147.0	202.6	277.8	224.6	295.2	3113.8	13900.0	16218.6	16487.2
50°	93.8	123.9	228.0	247.7	184.1	225.7	2942.5	14254.2	16527.7	16785.8
52.5°	76.4	104.2	215.3	189.8	154.0	186.4	3035.1	14828.4	16813.6	16975.7
55°	63.7	82.2	129.6	132.0	130.8	158.6	3149.7	15652.6	17553.3	17629.7
57.5°	55.6	66.0	90.3	101.9	110.0	141.2	3152.0	16835.6	18698.1	18745.6
60°	47.5	57.9	75.2	82.2	94.9	126.2	3037.4	17248.8	19148.4	19305.8
62.5°	41.7	50.9	62.5	68.3	79.9	113.4	2768.9	16650.4	18530.3	18797.7
65°	37.0	46.3	52.1	57.9	70.6	101.9	2326.7	15453.5	17504.7	17783.6
67.5°	32.4	40.5	46.3	52.1	63.7	90.3	1713.2	14063.2	16327.4	16558.9
70°	28.9	35.9	41.7	46.3	55.6	76.4	1039.5	11933.3	14699.9	14796.0
72.5°	27.8	32.4	38.2	41.7	48.6	67.1	526.7	8769.7	11751.6	11907.8
75°	24.3	28.9	34.7	37.0	42.8	57.9	214.1	5760.0	8516.2	8767.4
77.5°	19.7	26.6	31.3	33.6	37.0	47.5	108.8	3681.0	5976.5	6138.6
80°	6.9	19.7	26.6	27.8	31.3	34.7	71.8	2015.3	3466.9	3536.4
82.5°	0.0	12.7	20.8	19.7	22.0	26.6	46.3	958.5	2288.5	2314.0
85°	0.0	5.8	16.2	12.7	9.3	18.5	16.2	209.5	1200.4	1250.2
87.5°	0.0	0.0	1.2	5.8	4.6	6.9	2.3	1.2	108.8	137.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)